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A three-dimensional passive-dynamic **walking robot** with two legs and knees SH Collins, M Wisse, A Ruina - ... International Journal of **Robotics** ..., 2001 - ijr.sagepub.com ... Lateral arm motion is one possible **stabilizing** compensa- tion ... speculated that the mass properties of the four-legged design should work reasonably well in our two-legged device, and that we would use trial, error, and **correction** to minimize ... The **gait** is typical of toys of this genre ... Cited by 301 - Related articles - 8L Direct

[PDF] Stable control of a simulated one-legged running robot with hip and leg ...

M Ahmadi, M Buehler - IEEE Transactions on **Robotics** and Automation, 1997 - Citeseer ... McGeer 11] has built completely un- actuated gravity powered two-legged mechanisms capable of **walking** down inclines. ... The control problem of **stabilizing robot running** with a compliant hip for fore-aft swinging is much more dicult than that for the compliant leg (vertical ...

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Stabilization of lateral motion in passive dynamic walking

AD Kuo - The International journal of **robotics** research, 1999 - ijr.sagepub.com ... roll and yaw rotation and found it to be unstable but did not offer a **stabilizing** control law ... of I P = 0 and using as initial guesses the fixed points of the planar passive dynamic **walking** ma- chine ... found two solutions for each α or γ , which were termed long- or short-period **gait** cycles ... Cited by 195 - Related articles - Bt. Direct - All 4 versions

A new control method for walking robots based on angular momentum

K Mitobe, G Capi, Y Nasu - Mechatronics, 2004 - Elsevier

... the ground reaction force and moment is important in order to control the **angular momentum** of **walking robots**. ... The selection of K ref and 1 depend on the desired **gait**. ... similar with the balance mechanism of humans, where the body balance is maintained by **adjusting** the point ...

Cited by 20 - Related articles - Alt 3 versions

... of a series of compact humanoid robots and development of biped walk control ...

T Furuta, T Tawara, Y Okumura, M Shimizu, K ... - Robotics and ..., 2001 - Elsevier

... 6. When the ESYS humanoid project commenced in 1996, biped **walking** using multiple-link virtual ... **gait** generation was proposed and shown to be successful in realizing various dynamic **walk**. ... The last strategy has provisions for real-time **gait adjustment** due to the existence of ...

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Passive dynamic walking

T McGeer - The International Journal of Robotics Research, 1990 - ijr.sagepub.com ... Again the stance leg is left free. However, the &dquo; feedforward&dquo; gait is unstable, so small feedback corrections are added to maintain the walking cycle. ... more pure implementation, and applied them with great success to running machines having from one to four legs. ...

Cited by 1277 - Related articles - All 17 versions

[PDF] A hop towards running humanoid biped

S Kajita, T Nagasaki, K Kaneko, K Yokoi, K ... - ... ON ROBOTICS AND ..., 2004 - Citeseer ... that these springs help **running** but they might prevent the ordinary humanoid activities including **walking**, carrying objects ... results of forward hopping and introduce an **adjustment** to obtain accurate travel distance. In Section VI, our first attempt to realize **running** is explained. ...

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[PDF] Self-stabilizing running

RP Ringrose - 1997 - dspace.mit.edu

... Similarly, by **correcting** for the interactions between the two bipeds the resulting quadruped runs stably ... the touchdown position of the foot a function of pitch, **stabilizing** the monopod ... passive dynamic **walking** machine walks downhill using an inverted pendulum **gait**, illustrated in ...

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Dynamic walk of a biped

H Miura, I Shimoyama - The International Journal of Robotics ..., 1984 - ijr.sagepub.com ... The most important point is that the mo- tion of either **robot** during the single-leg support phase can be ... Thus, **stepping** must be continued to **walk** or maintain an upright, balanced posture. - Postural state is measured by potentiometers and contact sensors. ...

Cited by 220 - Related articles - All 2 versions

[PDF] Asymptotically stable walking for biped robots: Analysis via systems with ...
JW Grizzle, G Abba, F Plestan - IEEE Transactions on Automatic Control, 2001 - Citeseer
... passive is used in the sense that the system is not actuated, but can walk down an ... to use in the
analysis, namely, the constraints corresponding to an impact with the walking surface. ... This will
be achieved with the use of finite-time stabilizing feedback controllers [23], [4]–[6]. The ...
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Good Scholar (gait OR walking OR step OR running OR wall Search Scholar Preferences Scholar Articles and patents anytime include citations Results 1 - 10 of about 24,40

[PDF] ...: Humanoid motion planning based on the linear and angular momentum S Kajita, F Kanehiro, K Kaneko, K Fujiwara, ... - Proceedings of the ..., 2003 - staff.aist.go.jp ... of a perfect multi-purpose ma- chine [1, 2, 3, 4, 5]. However, once we step out the ... In Section 5, using a hu- manoid robot HRP-2, kicking and walking motions are generated ... proposed a balancing and walk- ing controller based on the CoM manipulation [8]. Both methods mainly ... Cited by 122 - Related articles - View as HTML - All 8 versions

A three-dimensional passive-dynamic **walking** robot with two legs and knees SH Collins, M Wisse, A Ruina - The International Journal of ..., 2001 - ijr.sagepub.com ... The **gait** had a visually appealing **swing** but was not robust; it only walked the full length of ... Extension 5). At this stage, side-to-side rocking increased from **step** to **step**, leading to ... We observed that human **arms** move in and forward simul- taneously while **walking** naturally, so we ... Cited by 301 - Related articles - BL Direct

[PDF] Angular momentum regulation during human walking: biomechanics and ...
M Popovic, A Hofmann, H Herr - ... of the IEEE International Conference on ..., 2004 - Citeseer ... that a large class of human movements, including standing, walking and running, support conservation ... due to this assumption are limited to a small part of the gait cycle, and ... simplification, based on observations of human test subjects during normal walking, approximates the ...

Cited by 35 - Related articles - View as HTML - St. Direct - All 12 versions

[PDF] ... 3D Linear Inverted Pendulum Mode: A simple modeling for a biped walking ... S Kajita, F Kanehiro, K Kaneko, K Yokoi, H ... - Proceedings of the ..., 2001 - staff.aist.go.jp ... Figure 5: XY -position and velocity in a walk of the fig- ure 4. The tick line shows x ... The position graphs jump the dis- tanc e of the step length at each support foot exchange, sincewe are ... CT = cosh(Ts=Tc) ST = sinh(Ts=Tc) T o control the walking speed, we must c hange the ... Cited by 101 - Related articles - View as HTML - All 6 versions

Animating human athletics

JK Hodgins, WL Wooten, DC Brogan, JF ... - Proceedings of the 22nd ..., 1995 - portal acm.org ... These machines walked, jumped, changed **gait**, climbed stairs, and performed gymnastic maneuvers ([14–16 ... 8]. McMahon provides graphs of stance duration, flight duration, and **step** length as ... dynamic model and control algorithms to generate the motions of a **walking** human[... Cited by 503 - Related articles - BL Direct - Ali 24 versions

Contribution of the support limb in control of **angular momentum** after tripping M Pijnappels, MF Bobbert, JH van Dieën - Journal of biomechanics, 2004 - Elsevier ... 1). In about 10 out of 60 **walking** trials, one of the obstacles suddenly appeared to trip the ... Online kinematic data of each trial were used to calculate the subject's **step** length and velocity. ... **Gait** kinematics were recorded during each trial using 4 Optotrak cameras (Northern Digital ... Cited by 21 - Related articles - Ali 11 versions

[PDF] Do springboard divers violate angular momentum conservation

C Frohlich - American Journal of Physics, 1979 - physics.princeton.edu ... the body will have rotated a total of 82° between the first and the sixth **step**, even though his ... diver has **angular momentum** only about his left-right axis (dotted line) and has no twisting **motion**. At the instant pictured in (b) he sharply "throws" his left **arm** down and his right **arm** up ...

Cited by 63 - Related articles - All 8 versions

Synthesis of complex dynamic character motion from simple animations

CK Liu, Z Popović - ACM Transactions on Graphics (TOG), 2002 - portal acm.org

... This paper strives to make a **step** in that direction. ... Less energetic motions such as **walking** or reaching are not addressed in this paper. ... fine-tuned and synchronized to each other, a wide range of realistic anima- tions can be produced, ranging from human **running**, diving [Hod ...

Cited by 159 - Related articles - BL Direct - All 44 versions

Role of arm motion in the standing long jump

BM Ashby, JH Heegaard - Journal of biomechanics, 2002 - Elsevier

... four cameras, a force platform, passive reflective markers, and a computer running a software ... into the motor control principles of activities involving both upper and lower body motion. Angular momentum analyses would be helpful in quantifying the effects arm swing has upon ...

Cited by 25 - Related articles - All 10 versions

Effects of extremity loading upon energy expenditure and running mechanics

AD CLAREMONT, SJ HALL - Medicine & Science in Sports & ..., 1988 - journals.lww.com ... for a kilogram of weight added to the feet or hands during walking and running ... considering that the major axis of rotation for the lower extremity during running is at ... Since upper extremity movement during locomotion serves largely to generate angular momentum counter- acting ... Cited by 22 - Related articles - Ali 3 versions

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[PDF] ... : Humanoid motion planning based on the linear and angular momentum S Kajita, F Kanehiro, K Kaneko, K Fujiwara, ... - Proceedings of the ..., 2003 - staff.aist.go.jp ... 1 1 , jj m I - - O Extremity Body ... kick kick Figure 5: Reference velocity of right foot ξref F1 upper graph of Figure 6 shows the corresponding lin- ear momentum during this action. ... To achieve this, the robot throws back its **body** when it swings the leg back, and the 1648 Page 6. ... Cited by 122 - Related articles - View as HTML - All 8 versions

A three-dimensional passive-dynamic walking robot with two legs and knees

SH Collins, M Wisse, A Ruina - The International Journal of ..., 2001 - iir.sagepub.com ... It is missing upper body parts and degrees of freedom. ... from gravity, with no ankle extension or torques to accelerate leg swinging, which affects the device's motion. Even within our limited design parameters, the best- functioning arm motions are backward compared to anthropo ... Cited by 301 - Related articles - Bt. Direct

A new control method for walking robots based on angular momentum

K Mitobe, G Capi, Y Nasu - Mechatronics, 2004 - Elsevier

... The upper body motion is generated such that the ZMP follows the prescribed trajectory [1 and 2]. When a ... In order to achieve stable motion, an accurate tracking control is needed ... Angular momentum is a useful physical quantity for generating the **gait** of bipedal walking robots [5 ... Cited by 20 - Related articles - All 3 versions

Synthesis of complex dynamic character motion from simple animations

CK Liu, Z Popović - ACM Transactions on Graphics (TOG), 2002 - portal acm.org ... center of mass (COM) of the lower **body**, COM of the **upper body**, and COM of ... in the event that the animator's keyframe poses force the character into unrealistic movement. ... they provide scaffolding for the motion, whereas dynamic constraints ensure realistic motion during each ... Cited by 159 - Related articles - BL Direct - Ali 44 versions

Dynamic stability in elders: momentum control in locomotor ADL

BK Kaya, DE Krebs, PO Riley - JOURNALS ..., 1998 - biomedgerontology.oxfordjournals. In addition, the chair height may not have been sufficiently low to challenge lower extremity strength. ... tum control than exhibited in the sagittal and vertical planes (Table 4). The upper body of BVH ... leg and rotation of the **body** laterally to overcome the inertia of the **body** mass as ... Cited by 49 - Related articles - Bt. Direct - All 5 versions

An analysis of parkinsonian gait

E Knutsson - Brain, 1972 - Oxford Univ Press

... The mean angle between upper arm and lower arm at peak extension was 177° + 12° and at ... limb support, symmetry of steps and sagittal rotations in the joints of the upper and lower ... When the **body** is raised over the other limb after its weight acceptance, forward progression is ...

Cited by 112 - Related articles - All 5 versions

Animating human athletics

JK Hodgins, WL Wooten, DC Brogan, JF ... - Proceedings of the 22nd ..., 1995 - portal.acm.org ... swinging of the legs. However, the details of the motion of the upper body are not constrainedby the dynamicsof the task and amateurathletes use many different styles of arm motion when they run. Observations of human runners ...

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Goal-directed, dynamic animation of human walking

A Bruderlin, TW Calvert - ... of the 16th annual conference on ..., 1989 - portal acm.org ... movements not involving coordination between several limbs (eg raising an **arm** or dropping an **arm** under the ... phase of a locomotion sequence is reached, ie the forward velocity of the **body** as a ... 4.2 Stance Phase During stance the **upper body** is balanced by the torque F0. ... Cited by 328 - Related articles - All 9 versions

Patterns of spinal motion during walking

J Crosbie, R Vachalathiti, R Smith - Gait & Posture, 1997 - Elsevier

... was defined in terms of the relative **motion** between the relevant thigh rigid **body** and the ... 6). The **upper** and lower trunk segments were in a neutral orientation with respect to ... be explained in terms of an overall conservation of **angular momentum**, with **arm swing** affecting these ...

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Stabilization of lateral motion in passive dynamic walking

AD Kuo - The International journal of robotics research, 1999 - ijr.sagepub.com

... The pelvis is fixed to the **upper** end of the stance leg, point P, and is modeled as ... These equations were derived using a custom software package for rigid **body** dynamics (Kuo 1997 ... A full **swing** comprises the **motion** of the machine starting from the initial double-support position ...

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